

Recombinant Full Length Human RAB7A Protein, His-tagged

Cat. No. RAB7A-194H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human RAB7A protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
ProteinLength	1-207 a.a.
Description	RAB family members are small, RAS-related GTP-binding proteins that are important regulators of vesicular transport. Each RAB protein targets multiple proteins that act in exocytic / endocytic pathways. This gene encodes a RAB family member that regulates vesicle traffic in the late endosomes and also from late endosomes to lysosomes. This encoded protein is also involved in the cellular vacuolation of the VacA cytotoxin of Helicobacter pylori. Mutations at highly conserved amino acid residues in this gene have caused some forms of Charcot-Marie-Tooth (CMT) type 2 neuropathies.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 30% glycerol, 100mM NaCl
Molecular Mass	25.6 kDa (227aa), confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSHQSLGVAFYRG ADCCVLVFDV TAPNTFKTLD SWRDEFLIQA SPRDPENFPF VVLGNKIDLE NRQVATKRAQ AWCYSKNNIP

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

YFETSAKEAINVEQAFQTIA RNALKQETEV ELYNEFPEPI KLDKNDRAGA
SAESCSC MTSRKKVLLK VIILGDSGVG KTSLMNQYVN KKFSNQYKAT
IGADFLTKEV MVDDRLVTMQ IWDTAGQERF

Purity > 90% by SDS - PAGE

Storage Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.

Concentration 0.5 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name [RAB7A](#) [RAB7A, member RAS oncogene family \[Homo sapiens \(human\) \]](#)

Official Symbol RAB7A

Synonyms RAB7A; RAB7A, member RAS oncogene family; RAB7; PRO2706; ras-related protein Rab-7a; RAB7, member RAS oncogene family; Ras-associated protein RAB7

Gene ID [7879](#)

mRNA Refseq [NM_004637](#)

Protein Refseq [NP_004628](#)

MIM [602298](#)

UniProt ID P51149

Chromosome Location 3q21.3

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Pathway	Adaptive Immune System; Immune System; Salmonella infection
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Function	GDP binding; GTP binding; GTPase activity; Rac GTPase binding
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